State of California AIR RESOURCES BOARD

EXECUTIVE ORDER DE-05-002

Pursuant to the authority vested in the Air Resources Board (ARB) by Health and Safety Code, Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39616 and Executive Order G-02-003;

Relating to Exemptions under Section 27156 of the Vehicle Code, and Verification under Sections 2700 through 2710 of Title 13 of the California Code of Regulations

CleanAIR Systems, Inc.
PERMITTM

ARB has reviewed CleanAIR Systems' request for verification of the PERMITTM diesel particulate filter (DPF). Based on an evaluation of the data provided, and pursuant to the terms and conditions specified below, the Executive Officer of ARB hereby finds that the PERMITTM DPF reduces emissions of diesel particulate matter (PM) consistent with a Level 3 device (greater than or equal to 85 percent reductions) (Title 13 California Code of Regulations (CCR) Sections 2702 (f) and (g) and Section 2708). Accordingly, the Executive Officer determines that the system merits verification and, subject to the terms and conditions specified below, classifies the PERMITTM as a Level 3 system, for use with stationary emergency generators and engine families listed in Attachment 1.

The aforementioned verification is subject to the following terms and conditions:

- The engines are model years 1996 through 2005 having the engine family names listed in Attachment 1.
- The engine must be in their original certified configuration.
- The engine must not employ exhaust gas recirculation.
- The engine must not have a pre-existing oxidation catalyst.
- The engine must not have a pre-existing diesel particulate filter.
- The engine must be four-stroke.
- The engine can be turbocharged or naturally-aspirated.
- The engine must be certified in California.
- The engine must be certified at a particulate matter emission level equal or less than 0.1 g/bhp-hr (as tested on an appropriate steady-state certification cycle outlined in the ARB off-road regulations similar to ISO 8178 D2).
- CleanAIR must review actual operating conditions (duty cycle, baseline emissions, exhaust temperature profiles, and engine backpressure) prior to retrofitting an engine with the PERMIT[™] to ensure compatibility.
- The engine should be well maintained and not consume lubricating oil at a rate greater than that specified by the engine manufacturer.
- The engines must be operated on fuel that has a sulfur content of no more than 15 parts per million by weight.

The other terms and conditions specified below.

Table 1: Conditions for the PERMITTM

Maximum consecutive minutes at idle	240 minutes
Number of 10 minute idle sessions before	Regeneration recommended after 12
regeneration is required	consecutive sessions; required after 24
Minimum temperature/load/time	300° Celsius for 30% of operating time or
requirements for regeneration in 4-stroke	2 hours, whichever is longer. For most
engine	engines, 40% load results in temperature
	of at least 300° Celsius
Number of hours of operation before	5000 hours under normal operating
cleaning/disposal of filter	conditions

IT IS ALSO ORDERED AND RESOLVED: That installation of the PERMIT™, manufactured by CleanAIR Systems, 4379 Center Place, Santa Fe, NM 87507 has been found not to reduce the effectiveness of the applicable engine pollution control system.

The PERMIT[™] consists of a catalyzed passive diesel particulate filter and a backpressure monitor, HIBACK.

This Executive Order is valid provided that installation instructions for PERMIT[™] do not recommend tuning the engine to specifications different from those of the engine manufacturer.

Changes made to the design or operating conditions of PERMIT™, as exempted by ARB, which adversely affect the performance of the engine's pollution control system, shall invalidate this Executive Order.

No changes are permitted to the device. ARB must be notified in writing of any changes to any part of PERMIT[™]. Any changes to the device must be evaluated and approved by ARB. Failure to do so shall invalidate this Executive Order.

Marketing of the PERMIT™ using identification other than that shown in this Executive Order or for an application other than that listed in this Executive Order shall be prohibited unless prior approval is obtained from ARB.

This Executive Order shall not apply to any PERMIT™ advertised, offered for sale, sold with, or installed on an engine prior to or concurrent with transfer to an ultimate purchaser.

As specified in the Diesel Emission Control Strategy Verification Procedure (Title 13 CCR Section 2706 (g)), the ARB assigns each Diesel Emission Control Strategy a

family name. The designated family name for the verification as outlined above is CA/CAS/2003/PM3/N00/ST/DPF01.

Additionally, as stated in the Diesel Emission Control Strategy Verification Procedure, CleanAIR Systems, Inc. is responsible for honoring their warranty (Section 2707) and conducting in-use compliance testing (Section 2709).

In addition to the foregoing, ARB reserves the right in the future to review this Executive Order and the exemption and verification provided herein to assure that the exempted and verified add-on or modified part continues to meet the standards and procedures of California Code of Regulations, Title 13, Section 2222, et seq and California Code of Regulations, Title 13, Sections 2700 through 2710.

Systems verified under this Executive Order shall conform to all applicable California emissions regulations.

Violation of any of the above conditions shall be grounds for revocation of this Executive Order.

Executed at Sacramento, California, this 10th day of February 2005.

Catherine Witherspoon Executive Officer by

/s/

Peter D. Venturini, Chief Stationary Source Division